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List of publications.

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THE GEOLOGICAL SURVEYS OF PENNSYLVANIA

There have been four geological surveys of Pennsylvania and four resulting series of publications.

FIRST SURVEY, 1836-1854.—Publications—6 annual reports, 2 quarto-volumes, and a state geologic map.

SECOND SURVEY, 1874-1887.—Publications—81 volumes, 25 atlases, and a grand atlas.

SECOND SURVEY, 1895-1919.—Publications—61 bienniel reports, and 12 reconsidered reports listed in this pamphlet.

FOURTH SURVEY, 1919——.—Publications—listed in this pamphlet.

All reports of the first three geological surveys and many of the reports of the present (Fourth) survey are out of print. These reports are available for consultation in many libraries, and some may be purchased from used book dealers.

The library of the Pennsylvania Geological Survey in Harrisburg is open for public use and contains all reports of Pennsylvania, as well as most U. S. Geological Survey, U. S. Bureau of Mines, and other governmental and institutional reports.

PUBLICATIONS
PENNSYLVANIA GEOLOGICAL SURVEY
FOURTH SERIES.

A—Atlas Reports (in quadrangles, with topographic, geologic, and mineral resource maps.

C—County Reports, with topographic and geologic maps.

G—General Geology Reports.

M—Mineral Resource Reports.

SB—Special Bulletins; oil and gas atlas reports.

W—Ground Water Resource Reports.

PR—Progress Reports.

IC—Information Circulars.

A—Atlas Reports

		Price
A	1. OIL CITY QUADRANGLE, by Frank W. DeWolf. 1925. 196 pp., 38 pls. including 1 topographic and 4 geologic maps.	$1.00
A	2. PITTSBURGH QUADRANGLE, by Meredith E. Johnson. 1925. 196 pp., 38 pls. including 1 topographic and 4 geologic maps.	1.00
A	3. PHILIPSBURG QUADRANGLE, by H. H. Hughes. 1926. 172 pp., 18 pls. including 1 topographic and 2 geologic maps.	1.75
A	4. CLEARFIELD QUADRANGLE, by Meredith E. Johnson. 1926. 182 pp., 24 pls. including 1 topographic and 4 geologic maps.	1.00
A	5. BEDFORD QUADRANGLE, by E. K. Cleaner, R. W. Fenn, and M. N. Hartman. 1926. 196 pp., 34 pls. including 1 topographic and 3 geologic maps.	1.00
A	6. EBENSBURG QUADRANGLE, by Meredith E. Johnson. 1927. 196 pp., 30 pls. including 1 topographic and 3 geologic maps.	1.00
*A	7. PUNXSUTAWNEY QUADRANGLE, by George H. Ashley. 1928. 196 pp., 30 pls. including 1 topographic and 3 geologic maps.	1.00
A	8. TIONESTA QUADRANGLE, by George D. Ashley. 1928. 196 pp., 32 pls., 4 pls. including 1 topographic, 1 geologic, and 1 economic maps. Out of print. Photostat copies	1.00
A	9. TROUT QUADRANGLE, by Charles Butts, F. R. Boyer, and Bradley Willis. 1928. 218 pp., 32 pls. including 1 topographic map and 3 geologic maps.	1.00
A	10. CLEARFIELD QUADRANGLE, by H. C. Jones and George H. Ashley. 1928. 152 pp., 21 pls. including 1 topographic and 3 geologic maps.	1.00
*A	11. NEW WILMINGTON QUADRANGLE, by Henry C. Jones and J. Edmund Woodrow. 1928. 196 pp., 30 pls. including 1 topographic and 3 geologic maps.	1.00
*A	12. ALTOONA QUADRANGLE, by E. S. Miller. 1926. 180 pp., 30 pls. including 1 topographic and 3 geologic maps.	1.00

C—County Reports

		Price
C	1. GEOLOGY AND MINERAL RESOURCES OF ADAMS COUNTY, by Charles Butts. 1916. 2nd edition, revised. 1 topographic and 1 mineral resource map. 167 pp.	1.00
C	2. GEOLOGY AND MINERAL RESOURCES OF CLEARFIELD COUNTY, by G. Hazzin, IV, and F. T. Shutt. 1911. 520 pp., 146 figs., 1 topographic, 1 soil and 4 geologic maps. Out of print.	3.25
C	3. GEOLOGY AND MINERAL RESOURCES OF FAYETTE COUNTY, by Raymond C. Wilmot. 1919. 2nd edition, revised. 1 topographic and 1 geologic map. 10 figs.	1.00
C	4. GEOLOGY, TOPOGRAPHY, AND MINERAL RESOURCES OF BEDFORD COUNTY, by E. K. Miller and Edward Sutton. 1922. 402 pp., 17 figs., 19 pls. including 1 topographic and 3 geologic maps. Out of print. Photostat copies	2.00
C	5. NORTHAMPTON COUNTY, GEOLOGY AND MINERALOGY, by H. C. Hoskins, with chapters on Physiography, Glacial Geology, Trap Rock, and the Lackawanna Formation, by H. B. Kümmel. 1912. 496 pp., 96 figs., 1 topographic and 1 geologic map. Out of print. Photostat copies	2.25
C	6. GEOLOGY AND MINERAL RESOURCES OF YORK COUNTY, by Charles E. Hall and Edgar T. Wherry. 1928. 196 pp., 34 pls., 18 figs. including geologic map	2.25

G—General Geology Reports

		Price
G	1. A CATALOG OF PENNSYLVANIA GEOLOGY AND MINERAL RESOURCES, by Charles Butts. 1916. 2nd edition, revised. 1 map showing areal geology of Pennsylvania. 356 pp. Of value to those seeking a good source guide to the geology and mineral industry, and for the location of libraries where the publications of many of the early surveys may be studied. Out of print.	*
G	2. WORTHWHILE BOOKS ON PENNSYLVANIA GEOLOGY. Bibliography of publications in the fourth series.	free
G	3. PENNSYLVANIA CAVES, by Ralph W. Stone. 1925. 142 pp., 33 figs. Directions of caves open to the public, and advice to cave explorers.	0.25
G	4. DEVONIAN FAUNAS OF PENNSYLVANIA, by Bradford Willard. 1928. 2nd edition, revised. 1 map showing areas of Devonian outcrop. 36 pp. Discussion of various faunas of the Devonian, with bibliography.	0.25
G	5. SURVEY OF PENNSYLVANIA, by George H. Ashley. 1925. 2nd edition, revised. 1 map showing areas of Pennsylvanian outcrop. 36 pp. Discussion of various aspects of the Pennsylvanian, with bibliography.	0.25
G	6. GLACIAL DEPOSITS BETWEEN THE WESTWARD PENETRATION OF THE SUSQUEHANNA AND THE DELAWARE, by Frederick Leverett. 1929. 2nd edition, revised. 1 map. 10 pp.	*
G	7. CONTRIBUTION TO PALEONTOLOGY OF PENNSYLVANIA, by Charles Butts. 1926. 2nd edition, revised. 1 map showing areas of Pennsylvanian outcrop. 36 pp.	*
G	8. THE UNCONFORMITY AT THE WISSAHICKON FORMATION, by Bradford Willard and Arthur D. Cleaves. 1930. 1 map. 20 pp.	*
G	9. SURVEY OF PENNSYLVANIA, by George H. Ashley. 1931. 3rd edition, revised. 1 map showing areas of Pennsylvanian outcrop. 36 pp. Discussion of various aspects of the Pennsylvanian, with bibliography.	*
G	10. GLACIAL GEOLOGY OF PENNSYLVANIA, by Frederick Leverett. 1932. 1 map. 134 pp. Discussion of the Pleistocene deposits of Pennsylvania, with bibliography.	*
G	11. THE UNCONFORMITY OF THE WISSAHICKON FORMATION, by Bradford Willard and Arthur D. Cleaves. 1930. 1 map. 20 pp.	*
G	12. THE CRYSTALLINE ROCKS OF LANCASTER COUNTY AND THEIR WATER SUPPLY, by Freeman Wood. 1931. 76 pp., 1 pl., 1 fig.	*
G	13. GEOLOGY, A PRELIMINARY OUTLINE, OF DELAWARE WATER GAP AND VICINITY, by Charles Butts. 1933. 1 map. 20 pp.	*
G	14. GEOLOGY, PRELIMINARY REPORT ON, FROM PHILADELPHIA TO THE DELAWARE WATER GAP, by Frederick Leverett. 1933. 1 map. 20 pp.	*
G	15. GUIDE TO THE GEOLOGY OF PARTS OF CHESTER AND DELAWARE COUNTIES, by Bradford Willard. 1933. 1 map. 20 pp.	*
G	16. GUIDE TO THE GEOLOGY OF THE CORAL FORMATION, by Bradford Willard. 1933. 22 pp., 1 pl., 3 figs. Description of the Coral formation.	*
G	17. GUIDEBOOK TO THE GEOLOGY NEAR READING, by Bradford Willard and Donald H. Framer. 1935. 27 pp., 11 figs.	*
G	18. GUIDEBOOK TO PENNSYLVANIA GEOLOGY ALONG THE LINCOLN HIGHWAY, by H. C. Miller. 1935. 47 pp., 14 figs.	*
G	19. GUIDEBOOK TO THE GEOLOGY ALONG THE PENNSYLVANIA TURNPIKE, by Bradford Willard, Richard Stose, and George D. Wilmarth. 1940. 87 pp., 17 figs.	*
G	20. GUIDEBOOK TO THE GEOLOGY OF PHILADELPHIA AND VICINITY, by Bradford Willard and Members of the Philadelphia Geological Society. 1942. 87 pp., 17 figs.	*
G	21. THE DEVONIAN OF PENNSYLVANIA, by Bradford Willard, Richard Stose, and Members of the Pennsylvania Geological Survey. 1947. 1 map. 87 pp., 17 figs.	*
G	22. THE GEOLOGY OF THE VALLEY AND RIDGE PROVINCE IN PENNSYLVANIA, by Members of the Pennsylvania Geological Survey. 1947. 1 map. 87 pp., 17 figs.	*
G	23. GUIDEBOOK TO THE GEOLOGY OF THE PHOENIXVILLE TERRANE IN THE VICINITY OF VALLEY FORGE, by Members of the Pennsylvania Geological Survey. 1947. 1 map. 87 pp., 17 figs.	*

M—Mineral Resource Reports

		Price
*M	1. OIL AND GAS FIELDS OF PENNSYLVANIA, Vol. I, Introduction, by Charles Butts and Paul Weaver. 1931. 2nd edition, revised. 1 index map. 1 map showing areas of development of oil and gas fields of the state, also 3 small scale maps showing areas of development of gas fields of the state, also 3 small scale recommendations for oil and gas well spacing.	*
*M	2. OIL, GAS, AND GROUND WATER IN THE PITTSBURGH AREA, by Charles Butts and Paul Weaver. 1931. 1 pl., 29 figs. Discussion of the geology of the Pittsburgh area, with a brief description of oil and gas fields of the area, also a small scale recommendation for oil and gas well spacing.	*
*M	3. THE SILVER AND FLUORITE ANTICLINES AND ADJACENT AREAS, CENTRAL CLINTON AND LYCOMING COUNTIES, PENNSYLVANIA, by John H. Bergsten. 1931. 55 pp., 5 pls., 8 figs.	0.75
M	4. STRATIGRAPHIC AND STRUCTURAL RELATIONSHIPS OF THE OIL AND GAS SANDS IN BUTLER COUNTY, by Dwight and Harry Wilmarth. 1932. 31 pp., 3 pls., 1 fig.	0.50
M	5. OIL AND GAS POSSIBILITIES OF THE ALLEGHENY SYNCLINORIUM, by Charles Butts. 1933. 2nd edition, revised. 1 map. 1 pl., 1 fig.	0.25
M	6. OIL AND GAS GEOLOGY OF THE SHEFFIELD QUADRANGLE, by A. J. Ingham, W. B. Lytle, L. S. Mallison, and R. K. Shrawder. 1936. 90 pp., 9 pls.	1.00

SB—Special Bulletins

		Price
1	OIL-BEARING SAND IN SOUTHWESTERN PENNSYLVANIA, by U. S. Matteson and D. B. Reger. 1916. 1st edition, out of print. Photostat copies of sections and maps	1.50
2	OIL AND GAS FIELDS OF PENNSYLVANIA, by Charles Butts and F. S. Watkins. 1918. 14 maps	*
3	OIL AND GAS FIELDS OF PENNSYLVANIA, Vol. II, Maps of the Pittsburgh and Washington Districts, by Paul Weaver. 1919. 2nd edition, revised. 1 index map. 2 maps	*
*3-D	OIL AND GAS FIELDS OF PENNSYLVANIA, Vol. III, Maps of the Tionesta and Kane Districts, by Paul Weaver. 1919. 2nd edition, revised. 1 index map. 2 maps	*
4	OIL AND GAS FIELDS OF THE PUNXSUTAWNEY QUADRANGLE, by Paul Weaver. 1919. 1st edition, out of print. 1 map. 2 tables	1.25
4-D	OIL AND GAS FIELDS OF THE PUNXSUTAWNEY QUADRANGLE, by Paul Weaver. 1919. 2nd edition, revised. 1 map. 2 tables	1.25
5	OIL AND GAS FIELDS OF THE BUTLER QUADRANGLE, by Wm. S. Lyon and Lucian Harvey. 1932. 12 maps. 2 tables	1.25

W—Ground Water Resource Reports

		Price
W	1. CHANGES WATER IN SOUTHWESTERN PENNSYLVANIA, by Arthur B. Cleaves and Arthur D. Johnston. 1939. 2nd edition, revised. 1 map. 45 figs. A detailed description of the occurrence and development of ground water in Allegheny, Beaver, Fayette, Greene, Washington, and Westmoreland counties	1.00
W	2. CHANGES WATER IN NORTHWESTERN PENNSYLVANIA, by George M. Hall. 1934. 253 pp., 1 colored geologic map, 1 pl., 3 figs. A detailed description of the occurrence and development of ground water in Crawford, Erie, Forest, Mercer, Venango, and Warren counties	1.50
W	3. CHANGES WATER IN SOUTHEASTERN PENNSYLVANIA, by Stanley W. Lohman. 1937. 97 pp., 1 pl., 12 figs. A detailed description of ground water in Berks, Bucks, Chester, Delaware, Lancaster, Lebanon, Montgomery, Philadelphia, and York counties	1.00
W	4. CHANGES WATER IN SOUTH-CENTRAL PENNSYLVANIA, by Stanley W. Lohman. 1939. 2nd edition, revised. 1 map. 45 figs. A detailed description of the occurrence and development of ground water in Adams, Berks, Bucks, Chester, Cumberland, Dauphin, Lancaster, Lebanon, Lycoming, Montgomery, Northumberland, Perry, Schuylkill, Susquehanna, Wayne, and York counties. Out of print. Photostat copies	1.25
W	5. CHANGES WATER IN NORTH-CENTRAL PENNSYLVANIA, by Stanley W. Lohman. 1941. 97 pp., 1 pl., 15 figs. A detailed description of the occurrence and development of ground water in Cameron, Centre, Clearfield, Clinton, Elk, McKean, Potter, Tioga, and Warren counties. Out of print. Photostat copies	1.00
W	6. CHANGES WATER IN NORTHEASTERN PENNSYLVANIA, by Stanley W. Lohman. 1939. 2nd edition, revised. 1 map. 45 figs. A detailed description of the occurrence and development of ground water in Carbon, Columbia, Monroe, Northampton, Pike, Schuylkill, Susquehanna, Wayne, and Wyoming counties	1.00
W	7. CHANGES WATER IN NORTHWESTERN PENNSYLVANIA, by Stanley W. Lohman. 1941. 82 pp., 11 figs., 1 pl. A summary of the ground water in Erie County	0.25
W	8. CHANGES WATER MEMORIES OF THE VALLEY FILL DEPOSITS OF NORTHEASTERN PENNSYLVANIA, by Stanley W. Lohman, Arthur D. Johnston, and N. H. Klein. 1941. 191 pp., 4 pls., 31 figs.	1.50
W	9. GUIDE TO THE GEOLOGY OF BEDFORD COUNTY, PENNSYLVANIA, by Stanley W. Lohman. 1941. 84 pp., 1 pl., 21 figs.	1.00
W	10. GUIDE TO THE GEOLOGY OF PITTSBURGH, by Stanley W. Lohman. 1941. 54 pp., 1 pl., 11 figs.	0.50
W	11. GROUND WATER RESOURCES OF BUCKS COUNTY, PENNSYLVANIA, by David W. Lounsbury. 1955. 98 pp., 1 pl., 5 figs. Text and geologic map of Bucks Co. showing well locations	0.75
	Extra maps, W 11 pl. 1	3.00

PR—Progress Reports

		Price
*PR	1-106. Mimeographed series of reports, all out of print, many superseded. See G 2 for partial list.	*
*PR	108. COAL AND OIL IN TUSCARORA COUNTY, PA., by R. H. Cuthbert. 1934. 31 pp., 3 figs.	*
*PR	107. GEOLOGY OF TIOGA COUNTY, PENNSYLVANIA, by R. H. Cuthbert and T. H. Hawes. 1934. 42 pp., 6 figs.	*
*PR	108. GEOLOGIC STRUCTURE IN THE PLATEAU REGION OF SOUTHWESTERN PENNSYLVANIA, by Arthur D. Cleaves. 1934. 20 pp., 1 pl., 3 figs. Reprinted from BULL. G 3.	*
*PR	109. GEOLOGY OF SUSQUEHANNA COUNTY, PENNSYLVANIA, by R. H. Cuthbert. 1934. 24 pp., 2 figs. (reprinted by P.R. 139)	*
*PR	110. POSSIBILITY OF STRUCTURAL GAS IN CLEARFIELD COUNTY, PENNSYLVANIA, by R. H. Cuthbert. 1934. 10 pp., 1 fig.	*
*PR	111. POSSIBLE STRUCTURES OF GAS IN THE ORISKANY SAND OF EAST CENTRAL PENNSYLVANIA, by R. H. Cuthbert. 1934. 21 pp., 3 figs.	*
*PR	112. POSSIBILITY OF STRUCTURAL GAS IN THE ORISKANY SAND OF MCKEAN COUNTY, PENNSYLVANIA, by R. H. Cuthbert. 1934. 10 pp., 1 fig.	*
*PR	113. WATER CURES OF PENNSYLVANIA, by Henry Leighton. 1934. 19 pp., 12 figs. (See bulletins M21 and M23.)	*
*PR	114. PENNSYLVANIA GEOLOGY SUMMARIZED, by Bradford Willard. 1934. 2nd edition, revised. 1935. reprint 1945. 19 pp., 4 figs.	free
*PR	114-A. SUBSURFACE STRATIGRAPHY OF NORTHWESTERN PENNSYLVANIA AND A SERIES OF OIL AND GAS PRODUCTIVE OF SHOWS FAVORS, by Charles K. Swartz. 1934. 52 pp., 2 figs.	1.00
*PR	115. STRUCTURE AND STRATIGRAPHY OF FAYETTE COUNTY (profile, report), by Raymond C. Wilmot. 1935. 55 pp., 1 map, 2 figs. (bulletin C24)	free
*PR	116. SHALEROCK OIL FIELD (profile, report), by Chas. K. Swartz. 1937. 17 pp., 5 figs. (See bulletin M21.)	*
*PR	117. SUPPLEMENTARY REPORT OF "DEEP SAND" WELLS IN PENNSYLVANIA, by R. H. Cuthbert. 1937. 17 pp., 5 figs.	*
*PR	118. GEOLOGY OF THE OIL AND GAS FIELDS OF THE TIONESTA QUADRANGLE (profile, report), by R. H. Cuthbert, R. E. Sherrill, and L. S. Mallison. 1941. 78 pp., 7 maps, 1 fig., 10 tables, 2 reports	*
*PR	119. THE CANADIAN SYSTEM, by Geo. H. Ashley. 1935. 7 pp.	*
*PR	120. STRUCTURE AND STRATIGRAPHY OF THE CONNOQUENESSING-SLIPPERY ROCK AREA (profile, report), by Chas. K. Swartz. 1939. 2 maps, 6 figs., including geologic structure map. (See bulletin A11)	free
*PR	121. STRUCTURE AND STRATIGRAPHY OF THE KANE-WARREN-SHEFFIELD REGION (profile, report), by W. H. Shaffner. 1939. 12 pp., geologic structure map, columnar section, and 31 graphic well records. (See bulletin A11)	free
PR	122. GEOLOGY OF THE OIL AND GAS FIELDS OF THE ELLWOOD QUADRANGLE (profile, report), by R. E. Sherrill and L. S. Mallison. 1935. 55 pp., 4 correlation sections, 4 maps, and 1 well records. (Sold by Division of Documents.)	0.75
*PR	123. OIL SHALES POSSIBILITIES IN PENNSYLVANIA, by Parke A. Dickey. 1939. 31 pp., 19 figs.	*
*PR	124. SUMMIT GAS POOL, FAYETTE COUNTY, PENNSYLVANIA, by Charles K. Swartz. 1940. 23 pp., 5 figs.	*
*PR	125. MINE MOISTURE AND MINE AIR STUDY NO. POOL IN LAFAYETTE TOWNSHIP, MCKEAN COUNTY, PENNSYLVANIA, by Charles K. Swartz. 1941. 24 pp., 8 figs.	*
*PR	126. THE UPPER DEVONIAN AND LOWER MISSISSIPPIAN OF SOUTHWESTERN PENNSYLVANIA, by Arthur D. Cleaves. 1941. 23 pp.	*
PR	127. STRUCTURE HISTORY ACROSS WESTERN PENNSYLVANIA, by Arthur D. Cleaves. 1941. 23 pp., 1 pl., 3 figs. Reprinted from Bulletin by Division of Documents	0.25
*PR	128. MARCELLUS MINERALS IN PENNSYLVANIA (profile, report), by Richard H. Funk. 1942. 23 pp., 5 figs. (See bulletin M27.)	free
*PR	129. ELECTRICAL WELL LOGGING IN THE EASTERN STATES, by Parke A. Dickey. 1942. 39 pp., 19 figs.	*
PR	130. ANTHRACITE SURVEYED, by Geo. H. Ashley. 1942. 15 pp.	free
*PR	131. HAZELL SAND FROM THE CONNELLS POST, MCKEAN COUNTY, PENNSYLVANIA, by Chas. K. Swartz and Wm. H. Siefert. 1944. 9 pp., 1 fig. (A limited mimeographed edition for the oil industry)	*
*PR	132. TOPOGRAPHIC MAPS, by Robert C. Stephenson. 1945. 23 pp., 2 figs.	*
PR	133. GAS IN LOWER TUSCARORA, CLINTON COUNTY, PENNSYLVANIA, by R. H. Cuthbert. 1945. 19 pp., 1 pl., 1 fig.	free
PR	134. PRELIMINARY REPORT, LIGHT GAS FIELD AND ADJACENT AREAS, CENTRAL CLINTON AND LYCOMING COUNTIES, PENNSYLVANIA, by John H. Bergsten. 1945. 33 pp., 5 pls., 2 figs.	0.75
*PR	135. OIL AND GAS DEVELOPMENTS IN PENNSYLVANIA IN 1945, by Robert C. Stephenson. 1946. 33 pp., 5 pls.	*
PR	136. PRELIMINARY REPORT ON CERTAIN LIGHT GAS FIELDS IN CENTRAL PENNSYLVANIA, by Carlyle Gray. 1951. 17 pp., 5 pls. (Sold by Division of Documents.)	0.50
PR	137. PRELIMINARY REPORT, GEOLOGY AND MINERAL RESOURCES OF PERKIOMEN CREEK BASIN, by M. N. Richard. 1951. 2 maps, 1 pl., 1 fig. (Sold by Division of Documents.)	0.75
PR	138. PRELIMINARY REPORT, GEOLOGY AND MINERAL RESOURCES OF NEW PROVIDENCE QUADRANGLE, by M. N. Richard. 1951. 2 maps, 1 pl., 1 fig. (Sold by Division of Documents.)	0.75
PR	139. GEOLOGY AND MINERAL RESOURCES OF FORTY-FORT QUADRANGLE, by Albert I. Ingham. 1951. A revision of reprint PR 122.	free
PR	140. OIL AND GAS DEVELOPMENTS IN PENNSYLVANIA IN 1951, by Robert C. Stephenson. 1952. 29 pp., 5 figs.	free
PR	141. THE HIGH FALLS MEMBER OF THE ANDREWS BED IN HUNTINGDON AND CENTRE COUNTIES, PENNSYLVANIA, by Carlyle Gray. 1952. 17 pp., 2 pls., 6 figs. (Sold by Division of Documents.)	0.65
PR	142. PRELIMINARY REPORT, GEOLOGY AND MINERAL RESOURCES OF THE NORTHEAST PART OF THE MOUNT CARMEL QUADRANGLE, by M. N. Richard. 1952. 2 maps, 1 pl., 1 fig. text on back. (Sold by Division of Documents.)	0.75
PR	143. GEOLOGY AND MINERAL RESOURCES OF PARTS OF THE MOUNT CARMEL QUADRANGLE, by Carlyle Gray. 1952. 2 maps, 1 pl., 1 fig. text on back. (Sold by Division of Documents.)	0.50
PR	144. OIL AND GAS DEVELOPMENTS IN PENNSYLVANIA IN 1952, by Robert C. Stephenson. 1953. 29 pp., 5 figs.	free
PR	145. OIL AND GAS DEVELOPMENTS IN PENNSYLVANIA IN 1953, by Robert C. Stephenson. 1954. 33 pp., 5 figs.	free
PR	146. GEOLOGY OF GAS SALT IN PENNSYLVANIA, by Chas. B. Fettke. 1953. Map with text on back	0.25
PR	147. GEOLOGY AND PRODUCTION OF THE KANE-WARREN AREA, by Donald B. Hinds. 1953. 34 pp., 7 pls., 6 figs.	0.60
PR	148. OIL AND GAS DEVELOPMENTS IN PENNSYLVANIA, IN 1954, by Chas. B. Fettke and Wm. B. Lytle. 1955. 33 pp., 7 figs., reprinted from Bull. A-P.O.	free
PR	148. SUPPLEMENT TO RECORD OF DRILLING OPERATIONS IN PENNSYLVANIA FOR JANUARY 1, 1954 INCLUDING PETROLEUM MISCELLANEOUS AND GAS STORAGE, by Robert C. Stephenson. 1955. 23 pp., 2 figs.	0.13
PR	149. GEOLOGY AND MINERAL RESOURCES OF SOUTHERN SOMERSET COUNTY, by Norman H. Flint. 1956. 2 maps, 1 pl., with prose on back	*
PR	150. OIL AND GAS DEVELOPMENTS IN PENNSYLVANIA, IN 1955, by Chas. B. Fettke and Wm. B. Lytle. 1956. 6 pp., 3 pls.	free

IC—Information Circulars

		Price
IC	1. Superseded by Bull. M 36.	
*IC	2. INDUSTRIAL MINERALS IN PENNSYLVANIA IN 1931, by Robert C. Stephenson. 8 pp.	*
IC	3. THE CONSERVATION OF GAS, PA 143 and 144.	
IC	4. ELEVATIONS IN PENNSYLVANIA, by Amos C. Sargent. 1934. 19 pp.	*
IC	5. RELATION OF STRATIGRAPHY AND STRUCTURE TO STANDING GAS PRESSURES IN CLINTON COUNTY, PENNSYLVANIA, by James L. Dyson. 1935. 11 pp., 4 figs.	free
IC	6. GEOLOGIC MAP OF PENNSYLVANIA, by Charles Butts, F. R. Boyer, and Richard H. Moss and Aivin Kaufman. 1953. 23 pp.	free
IC	7. THE GROUND WATER PROGRAM FOR PENNSYLVANIA. 1956. 14. pp.	free

Maps

		Price
*GEOLOGIC MAP OF PENNSYLVANIA. 1932. Scale 1:500,000 (1 inch = 8 miles).		*
MAP OF COAL FIELDS OF PENNSYLVANIA. 1929. Scale 1:500,000 (1 inch = 8 miles).		0.15
OIL AND GAS MAP OF WESTERN PENNSYLVANIA. 1932. Scale 1:250,000 (1 inch = 4 miles). Plus one map on back.		0.15
*UNPUBLISHED AREAS OF SHEFFIELD QUADRANGLE, by L. S. Mallison. 1936. Scale 1 inch = 1,000 feet.		*
*UNPUBLISHED AREAS OF SOUTHERN KINZUA AND NORTHERN SAND QUADRANGLES, by Chas. K. Swartz. 1940. Scale 1 inch = 1,000 feet.		*
*FARM LINE MAP AND ANNOTATED MINERAL RIGHTS OWNERSHIP MAP, by H. Hunt Clarkson and M. N. Richard. 1947. Scale 1:12000 (1 inch = 1 mile).		*
OIL AND GAS FIELDS AND PIPELINES MAP, 1953. Oil and gas fields, scale 1"=1 mi. Pipelines on scale of 1"=10 miles.		0.75
TOPOGRAPHIC MAP OF BUCKS COUNTY, Scale 1:62,500		1.25

SELECTED PUBLICATIONS
DEPARTMENT OF INTERNAL AFFAIRS

PENNSYLVANIA'S MINERAL HERITAGE. Department of Internal Affairs, Bureau of Research and Statistics, and the Mineral Industries Experiment Station, School of Mineral Industries, 1954. 0.50
249 pp., 29 figs., 1 map.

MAP: EARTH RESOURCES OF PENNSYLVANIA. Commonwealth of Pennsylvania, Department of Agriculture, Commerce, Internal Affairs and Mines, and the Pennsylvania State College, School of Mineral Industries. 1956. Scale 1 inch = 10 miles. *

SELECTED PUBLICATIONS
PENNSYLVANIA TOPOGRAPHIC AND GEOLOGIC SURVEY COMMISSION
(Third Survey)
Economic Reports

		Price
* 1.	GEOLOGY OF THE OIL AND GAS FIELDS IN BEWERLY QUADRANGLE, by M. J. Munn. 1918. 176 pp., 19 pls.	*
* 2.	COLUMNAR MAP OF SOUTHWESTERN PENNSYLVANIA. 1914. 19 pp., 16 pls.	*
* 3.	GEOLOGY OF THE OIL AND GAS FIELDS OF CLARION QUADRANGLE, by M. J. Munn. 1911. 97 pp., 8 pls.	*
* 4.	MINERAL PRODUCTS OF PENNSYLVANIA, by B. L. Miller. 1911. 140 pp., 31 pls.	*
* 5.	TALC AND SOAPSTONES OF EASTERN PENNSYLVANIA AND PERHAPS ADJACENT REGIONS, by Joseph Hyde Pratt and Joseph B. Peck. 1911. 66 pp., 17 pls., 3 figs.	*
* 6.	GEOLOGY OF THE NATURAL GAS FIELDS OF PENNSYLVANIA, by B. L. Miller. 1912. 168 pp., 31 pls., 1 colored map	*
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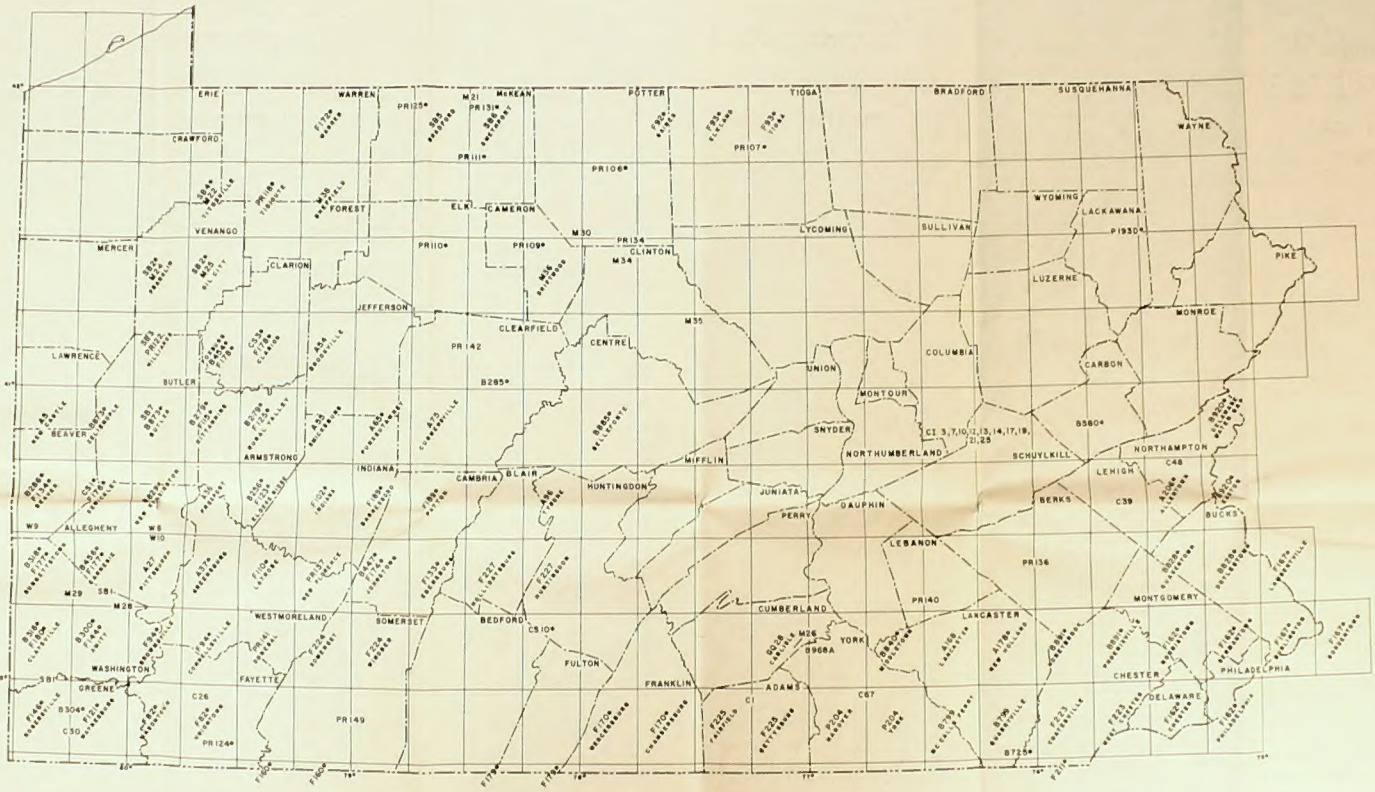

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